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Interference-free microprocessor

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Abstract

Under a multi-task environment, a tamper resistant microprocessor saves a context information for one program whose execution is to be interrupted, where the context information contains information indicating an execution state of that one program and the execution code encryption key of that one program. An execution of that one program can be restarted by recovering the execution state of that one program from the saved context information. The context information can be encrypted by using the public key of the microprocessor, and then decrypted by using the secret key of the microprocessor.

[◻ Machine Translation]   [◻ Close]

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